\$\$\$\$\$\$\$\$\$\$\$\$	UUU	UUU	MMM	MMM
SSSSSSSSSS	UUU	UUU	MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$	UUU	UUU	MMM	MMM
SSS	ŪŪŪ	ŬŪŬ	MMMMMM	MMMMMM
SSS	ŬŬŬ	ŬŬŬ	MMMMMM	MMMMMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMMMMM	MMMMMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM MMI	
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM MMI	
SSS	ŬŬŬ	ŬŬŬ	MMM MMI	
SSSSSSSS	ŬŬŬ	ŬŬŬ	MMM	MMM
SSSSSSSS	ŬŬŬ	ŬŬŬ	MMM	MMM
SSSSSSSS	ŬŬŬ	ŬŬŬ	MMM	MMM
SSS	ŬŬŬ	ŬŬŬ	MMM	MMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM	MMM
SSS	ŬŬŬ	ŬŬŬ	MMM	MMM
ŠŠŠ	ŬŬŬ	ŬŬŬ	MMM	MMM
ŠŠŠ	ÜÜÜ	ŬŬŬ	MMM	MMM
ŠŠŠ	ÜÜÜ	ŬŬŬ	MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$\$	UUUUUUUUUU		MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$\$\$			MMM	MMM
\$\$\$\$\$\$\$\$\$\$\$\$\$			MMM	MMM
<i></i>			rww1	mmm

\$	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	MM MM MM MMM MMM MMMM MMM MM MM MM MM MM	DDL DDD DDDDDDDD DD DD DD DD	TTTTTTTTT TTTTTTTTTT TT TT TT TT TT TT	•
		\$			

(20) (21) (22) (23) (24) (25) (26)

SUM1 V04-

Page 0

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(1)

SUM

V04.

SUMSEDIT 'V04-000' .TITLE . IDENT

C 1

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FACILITY: SUMSHR shareable library

ABSTRACT:

ENVIRONMENT: USER MODE

AUTHOR:

R. Newland

MODIFIED BY:

V03-002 MTR0002 Mike Rhodes 18-May-1983 Correct handling of file access switching in READ_UPD_LINE when an error occurs. Also, make the RAB globally available to the TPARSE action routines.

V03-001 MTR0001 Mike Rhodes 19-Jan-1983 Create and a local UBF for use in SUMSINIT and SUMSLINE. The local UBF precludes ACCVIOs resulting from the caller's RAB ROP=LOC, when processing SUMSHR's escape character '<'.

V02-001 B. Schreiber 21-Mar-1980 Make totally position independent.

ŎČŎŎ

2012345 0789

54 :--

: *

; *

DECLARATIONS

SUM'

```
0000
                       56
57
                                     .SETTL DECLARATIONS
             0000
             0000
                             Macro definitions
             0000
                       60
                                                                                Source update merge offsets
Edit block offsets
Input stream block offsets
Command line type
SUM control block
             0000
                       61
                                     DEFUPFBLK
                       62
             0000
                                     DEFEDBLK
            0000
0000
0000
0000
0000
0000
0000
                                     DEFISBLK
                       64
                                     DEFCMDTYPE
                                     DEFSUMCBL
                       66
                                     $FABDEF
                                                                                FAB
                                     SRABDEF
                                                                                 RAB
                       SNAMDEF
                                                                                 NAM block
                                                                                TPARSE definitions RMS definitions
                                     STPADEF
                                     SRMSDEF
             ŏŏŏŏ
                             state definitions
             0000
             ŎŎŎŎ
                          SEQUEST SUM_ST_..O.. -
             0000
                                                                                Set up for source or update
No more updates to process
                                     SET =
            0000
                                     NUP
                                     SRC .
                                                                                 Next line from source file
Next line from update file
             0000
                                     UPD .
             ŎŎŎŎ
                                     UPE .
                                                                                 Report update errors
             ŏŏŏŏ
                                     UPR
                                                                                 Update ready
             0000
                                     BLK
                                                                                 Process next edit block of update
            0000
                                     GET
                                                                                 Get next update line
                                     EOF >
                                                                              : End of file
             ŎŎŎŎ
            0000
            űččő
                             Procedure flag byte definitions
            ŎŎÒŎ
                       89
90
            ŎŎŎŎ
                           _VIELD PRC.O.< -
            0000
                                     <EXPED., M> -
                                                                              ; Expected edit command
; Deleted lines information pending
; Clash errors to report
            ŎŎŎŎ
                                     <DELINE., M> -
            ŎŎŎŎ
                       93
93
94
96
97
                                     <ERRORS.,M> -
            0000
                                     <HIEDIT,,M> -
                                                                                Highest precedence edit overides others
            0000
                                     <NODATA,,M> -
                                                                              ; Data from edit being ignored
            0000
            0000
            ŎŎŎŎ
            0000
                       98
            0000
                       99
                          : Local storage
            ŎŎŎŎ
                      100
                     101:
            0000
       0000000
                      102
                                     .PSECT SUMSRW_DATA, NOEXE, LONG
                      103
            0000
            0000
                      104
                          SUM_CUR_RAB:
            0000
                     105
                                                                              ; Address of the currently active RAB.
0000000
            0000
                     106
                                     .LONG
            0004
                      107
                     108 SUM_UBF_ADDR:
            0004
                                                                              ; Address of local UBF. The size of ; the UBF is established by the size
00000000
            0004
                     109
                                     .LONG
            0008
                     110
                                                                              ; of the main program's (caller's) RAB.
            0008
                      111
       0000000
                     112
                                     .PSECT SUMSRO_DATA,NOEXE,NOWRT,LONG
```

E 1 SUMSEDIT VO4-000 16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1 DECLARATIONS 0000 0000 0000 0000 0004 0004 113 : 114 : 115 SUM_ISSZE: 116 .LC 117 : 118 SUM_EDSZE: 119 .LC ; Size of input stream block 00000082 LONG IS_K_BLN ; Size of Edit block

LONG

ED_K_BLN

000001A

SUM'

TPARSE

SUM!

V04.

Page

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```
121
123
123
124
126
127
            8000
           0008
                                  .SAVE
           0008
       00000008
                                  .PSECT SUMSRW_DATA, NOEXE, LONG
           0008
           0008
            8000
                        TPARSE_BLOCK:
8000000
           0008
                                  .LONG
                                           TPASK_COUNTO
00000020
           0000
                    130
                                  .BLKB
                                           TPASK_LENGTHO-4
           002C
                    131
           ŎŎŽČ
                        : Continue Tparse parameter block with own data
           0020
                   134 SUM_TPARSE:
                       TPA_W_LOC1 = .-TPARSE_BLOCK
00000024
                   136
0000002E
                                  .BLKW
00000026
                   138 TPA_W_LOC2 = .-TPARSE_BLOCK
00000030
                   139
                                  .BLKW
00000028
                   140 TPA_B_ISFLAGS = .-TPARSE_BLOCK
           0030
00000031
           0030
                    141
                                  .BLKB
                   142 TPA_B_EDFLAGS = -TPARSE_BLOCK
00000029
           0031
00000032
           0031
                                  BLKB
                   144 TPA_W_DOT = .-TPARSE_BLOCK
AS00000
           0032
00000034
           0032
                   145
                                  .BLKW
0000002C
           0034
                   146 TPA_W_LOC = .-TPARSE_BLOCK
00000036
           0034
                   147
                                  .BLKW
0000005E
           0036
                   148 TPA_W_LINTYP = .-TPARSE_BLOCK
00000038
           0036
                   149
                                  .BLKW
           0038
                   150 TPA_Q_AUDDS = .-TPARSE_BLOCK
00000030
00000040
           0038
                   151
                                  .BLKQ
                   152 TPA_Q_CMNT = .-TPARSE_BLOCK
00000038
           0040
00000048
           0040
                   154 TPA_Q_LINEDS = .-TPARSE_BLOCK
155 .BLKQ 1
C0000040
           0048
00000050
           0048
                   156
157
           0050
           0050
       0000008
                   158
                                  .PSECT SUMSRO_DATA
           8000
                   159
0000002C
0000003B
           8000
                   150
                                 COMMA = ^X2C
           8000
                                 SEMICOLON = ^X3B
                   161
0000003C
                   162
163
           8000
                                 LESSTHAN = ^X3C
           8000
           8000
                   164
                                 SINIT_STATE
                                                    MER_STATE, MER_KEY
           8000
                   165
           8000
                   166
                          Get 1st character of line
           8000
                   167
           8000
                   168
                                 SSTATE
           8000
                   169
                                 STRAN
                                          TPA$_LAMBDA,,ACT_BLANKS_SIG
                   170
           8000
                                 SSTATE
                   171
172
173
174
175
176
177
                                          '-',EDIT
'X',CMND,ACT_PERCENT
'/',TERM
           8000
                                 STRAN
           8000
                                 STRAN
           8000
                                 STRAN
                                          LESSTHAN, DATA, ACT_ESC
'a', TPAS_FAIL
'\', CMND, ACT_BACKSLASH
           8000
                                 STRAN
           8000
                                 STRAN
           8000
                                 STRAN
                                 STRAN
                                           TPAS_EOS,DATA
```

F 1

TPARSE

16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR [SUM.SRC]SUMEDIT.MAR:1

```
5
(3)
```

SUM1

V04-

```
0008
0008
0008
         178
179
                          STRAN
                                     TPAS_ANY,DATA
         180
                 End data line
0008
         181
         182
8000
                                    TPAS_LAMBDA, TPAS_EXIT, ACT_EXIT,,,0
0008
0008
0008
0008
0008
0008
0008
                          STRAN
         184
         185
                 End normal command line
         186
         187
                          $STATE CMND
                          STRAN TPAS_LAMBDA, TPAS_EXIT, ACT_EXIT, . . CMD_M_CMND
         188
         189
                 End data terminating command
         191
         192
0008
                          $STATE TERM
ČÖÖ8
                                    TPAS_LAMBDA, TPAS_EXIT, ACT_EXIT, . - <CMD_M_CMND!CMD_M_EDTRM!CMD_M_EDEND>
                          STRAN
0008
         194
0008
         195
0008
8000
         197
                 Edit command
0008
0008
         199
                 Read locator-1
0008
         200
201
203
203
204
205
206
207
0008
                          STATE
STRAN
                                    EDIT
                                    THAS_LAMBDA
0008
0008
                          STRAN
8000
                          SSTATE
0008
                          STRAN
                                     TPA$_LAMBDA,,ACT_BLANKS_NSIG
8000
                          SSTATE
0008
                          STRAN
                                    !LOCATOR,,ACT_LOC1
         2011123456789012345678901234
1111111111122222222222333334
0008
0008
                 Read Locator-2
0008
0008
                         SSTATE
STRAN
8000
                                    TPAS_EOS, TPAS_EXIT
SEMICOLON, CMNT, ACT_CMNT
0008
                          STRAN
0008
                          STRAN
                                     COMMA
8000
                          SSTATE
0008
                                    !LOCATOR, ACT_LOC2
TPA$_EOS, TPA$_EXIT
                          STRAN
0008
                          STRAN
0008
                 Read audit string
0008
0008
                          SSTATE
0008
                          STRAN
                                    TPAS_EOS, TPAS_EXIT
SEMICOLON, CMNT, ACT_CMNT
0008
                          STRAN
0008
                          STRAN
                                     COMMA
8000
                          SSTATE
                                    '/', ACT_AUDIT
TPA$_EOS.TPA$_EXIT
SEMICOLON, CMNT, ACT_CMNT
0008
                          STRAN
8000
                          STRAN
0008
                          STRAN
8000
                          SSTATE
                                    '/', ACT_AUDEND
TPA$_ANY, AUDCH, ACT_AUDCH
8000
                          STRAN
                          STRAN
                 Read comment line
                         SSTATE
```

.RESTORE

8000 0000008 H 1

Page

(3)

SUM1 V04-

SUMSINIT

SUM1

V04-

```
Page
[SUM.SRC]SUMEDIT.MAR:1
```

```
260
261
263
263
265
                          0008
0008
0008
                                                 .SBTTL SUMSINIT
                                         Functional description:
                          This procedure is called to initialise the update files.
                                   266
267
                                   268
                                          Input parameters:
                                   269
270
271
272
273
                                                  4(AP) = Address of input stream control block
                                                  8(AP) = Address of update files list
                                                 12(AP) = Address of main program RAB
                                   275
276
277
                                          Outputs:
                                                 IS_L_MAIN_FAB(R9) = FAB address of source file
                                   278
279
                                          Implicit outputs:
                                   280
281
282
283
                                                 The edit nodes list.
                          0008
                                                 SUM_UBF_ADDR points to the local UBF which is allocated (if it has
                          0008
                                   284
                                                 not been previously).
                          0008
                                   285
                                   286
287
                          0008
                          0008
                                   28890
28890
2993
2993
2994
2994
                      0000000
                                                 .PSECT SUMSCODE, NOWRT, LONG
                          0000
                                                          SUM$INIT_EDIT,^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
SUM$INIT_
                   OFFC
                          0000
                                                 .ENTRY
                02
                          0002
                                                 BRB
                           0004
                          0004
                   OFFC
                                                 .ENTRY SUM$INIT_CMND,^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                           0006
                                       SUMSINIT:
                                   295
                           0006
                                   296
                          0006
                                                 MOVL
                                                                                       ; Assume successful completion
      58
59
            04 AC
                                   297
                                                 MOVL
                      D0
                           0009
                                                           4(AP),R8
                                                                                         Get address of SUM control block
               88
                      DO
                           d000
                                   298
                                                 MOVL
                                                                                         Get input stream data block address
                                                           SUM_L_ISDATA(R8),R9
                                   299
300
                0A
                      12
                           0011
                                                 BNEQ
                                                                                         Branch if block has been allocated
                                                          GET_IS_BLK
RO.7$
              00A4
                      30
                           0013
                                                 BSBW
                                                                                         Get and initialise data block
            6D 50
                      E9
                          0016
                                   301
                                                 BLBC
                                                                                         Error of LBC
       04 A8
                      D0
                          0019
                                   302
                                                 MOVL
                                                           R9,SUM_L_ISDATA(R8)
                                                                                         Save data block address
                                   303
                           001D
                                       5$:
                                                          SUM W LINE NO(R8)
#SUM ST SET, IS B STATE(R9)
#1, IS W LINE NO(R9)
8(AP), RTO
                                   304
                           001D
                                                 CLRW
                                                                                         Reset return line number
             18 A8
                                   305
       04 A9
                00
                      90
                           0020
                                                 MOVB
                                                                                                ; Initialise state to SET
                                                                                         and source file line number
       06 A9
                01
                      B0
                                   306
                                                 MOVW
                           0024
      5Ă
58
            08 AC
                                   307
                      DO
                                                 MOVL
                                                                                         Get file list address
                           0028
                                   308
            0C AC
                      D0
                           0020
                                                 MOVL
                                                           12(AP),R8
                                                                                         Get RAB address
                                   309
     0000004'EF
                      D5
                           0030
                                                 TSTL
                                                           SUM_UBF_ADDR
                                                                                         Has a UBF been allocated?
                      12
30
9F
                           0036
                                   310
                                                 BNEQ
                                                                                         If NEQ a UBF already exists.
                                   311
                                                 MOVZWL
                                                           RAB$W_USZ(R8),-(SP)
                                                                                         Set up the buffer size.
                           0038
                                   312
313
314
315
     00000004 'EF
                                                 PUSHAB
                                                           SUM_UBF_ADDR
                                                                                         Stack arguments for LIB$GET_VM
                           0030
                           0042
             04
                      DF
                                                 PUSHAL
                                                           4(SP)
                02
50
                                                          #2, G^LIB$GET_VM
RO, 7$
00000000 GF
                      FB
                           0045
                                                                                         Allocate a local UBF.
                                                 CALLS
                      E9
                           0040
                                                                                         Error if LBC
                                                 BLBC
                                   316
                8E
                           004F
                                                           (SP)+
                                                 TSTL
                                                                                        Clean up the stack.
```

			SUMS	INIT			16-SEP-19 5-SEP-19	984 02:1 984 03:3	10:14 38:52	VAX/VMS Macro V04-00 [SUM.SRC]SUMEDIT.MAR;1	Page	8 (4)
	50	A9 58 10 A8 14 A8 048B	D0 D4 B4 30	0051 0055 0058	317 6\$: 318 319	MOVL CLRL CLRW	R8, IS_L_MAIN_RAB(FRAB\$W_RFA+0(R8) RAB\$W_RFA+4(R8)	R9) ;	Save Clear (3 wo	RAB address RFA rds) ave it ; Save FAB address file list address		
10	A9	3C A8	D0	0058 0058 005E 0063	320 321 3223 3224 3225 3226 3327 3229 3330	BSBW MOVL MOVL	RABSE FAB(R8), IS I	L_MAIN_F	AB(R9) Save	ave it ; Save FAB address file list address		
40	80	AA 00	13 E2	0066 0068 006D	323 324 325	BEQL BESS	40\$ #UPF V INIT, -	; 30 \$.	, , , , , ,	L there is no list so ret h if already initialised	urn	
10	AA	10 AA	DE	006D 0072	326 327	MOVAL	UPF Q EDITS (R10),	-	Initi	alise edit list head in		
14	AA	10 AA	DE	0072 0077	328 329	MOVAL	WUPF V INIT, - UPF B FIFLAGS(R10) UPF Q EDITS(R10) UPF Q EDITS(R10) UPF Q EDITS(R10) UPF Q EDITS+4(R10)	·)		file block		
				0077 00 86	330 331 7 \$:	\$DISCON	NECT RABER8, ERR=SUI	M\$CLOSE_	_ERR ;	Disconnect RAB		
		30 50	E 9	0086 0089	332 333 10 \$:	BLBC	RO,40\$;	; Error	if LBC		
		05 50 5A 6A F6	10 E9 D0 12	0089 008B 008E 0091 0093	334 335 336 337 338 20\$:	BSB BLBC MOVL BNEQ	PROCESS_FILE RO,20\$ (R10),R10 10\$	•	; Error ; Get n	ess update files if LBC ext file block address of list if EQL		
3 C	84	5A 69 1C A9	D0	0093 0096 009B	339 340 341	MOVL MOVL SCONNEC	IS_L_FILELIST(R9) IS_L_MAIN_FAB(R9) T_RAB=R8.FRR=SUMSO	,R10 ; ,RAB\$L F PEN ERR	Reset	file list pointer; Reset FAB address		
		0447	30	00AA 00AD	342 343 30 \$:	BSBW	RESTORE_SRC_RFA		; Resto	ore source file RFA		
10	2A	10 AA A9 03	D0 88	00AD 00B2	344 345	MOVL BISB2	UPF Q EDITS(R10), #SUM M AUDIT!SUM N	IS_L_EDI M_AUDITA	IT BLK (R9); Reset edit block po; Switch on audit trail first audit as new alise number of deleted l	inter and	
		30 A9	B 4	00B6 00B6	346 347	CLRW	IS_W_DELETES(R9)	•	, mark ; Initi	alise number of deleted l	ines	
			04	00B9 00B9	348 40 \$: 349	RET						

```
16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
                                                                                                                                                                                    9
(5)
                                   GET_IS_BLK
                                           00BA
                                                                        .SBTTL GET_IS_BLK
                                                    352
353
354
355 : Functional description:
                                           OOBA
                                           00BA
                                           00BA
                                           OOBA
                                           00BA
                                           OOBA
                                                                       This routine obtains a memory block for an input stream data block and if successful initialises the block.
                                                     358
                                           OOBA
                                                     359
360
361
363
                                           OOBA
                                           ÖÖBA
                                                           : Inputs:
                                           OOBA
                                           OOBA
                                                                       None
                                           00BA
                                                     363;
364; Outputs:
365;
366; R9
367;
368;--
369;
370 GET_IS_BLK:
                                           OOBA
                                           00BA
                                                                       R9 = Address of memory block
                                           OOBA
                                           00BA
                                           OOBA
                                           OOBA
                                                     371
372
373
374
                                                                                   SUMSVIRT_ADDR
SUM_ISSZE
#2,G^LIB$GET_VM
R0,10$
                00000001EF
                                           00BA
                                                                       PUSHAB
                                                                                                                       ; Stack arguments for LIB$GET_VM
                00000000'EF
                                     9F
                                           0000
                                                                       PUSHAB
        0000000 GF
                                     fB
E9
                                           0006
                                                                       CALLS
                                                                                                                          Get memory block
                         1E 50
                                           OOCD
                                                                       BLBC
                                                                                                                          Error if LBC
                                                      375
376
377
                                                                       MOVL SUMSVIRT ADDR, R9
MOVC5 WO, (R9), WO, WIS K_BLN, (R9)
MOVAB IS T FAB(R9), RT

$FAB_STORE FAB = R1, -

BID = WFABSC_BID, -
                0000000 'ÉF
                                     D0
                                           0000
                                                                                                                          Get block address
0082 8F
                                     2¢
              00
                     69 00
                                           00D7
                                                                                                                          ; Clear block
                         32 Å9
                  51
                                           OODF
                                                                                                                       ; Set FAB block pointer
                                                     378
379
                                           00E3
                                                                                                                       ; and initialise as a FAB
                                           00E3
                                                     380
381
382
10$:
                                           00E3
                                                                                   BLN = #FAB$C_BLN
                                           00EB
                      50
                             01
```

#1,R0

; Set success status

MOVL

RSB

D0

05

OOEE

ÖÖĒĒ

SUM\$ V04L 1

PROCESS_FILE

05

0159

RSB

16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 ESUM.SRCJSUMEDIT.MAR;1

SUM\$

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SUMS

V04-

```
SET_UP_NODES
```

```
015A
015A
015A
                                                           .SBTTL SET UP NODES
                                          435
435
436
437
438
438
438
438
                                                  Subroutine to form all edit_nodes
                                015A
                                                  Inputs:

R8 = RAB address

441 = node a
                                015A
                                                           R10 = file node address
                                015A
                                           440
                                015A
                                                  Outputs:
                                015A
                                                           RO = Success/error status
                                015A
                                               SET_UP_NODES:
ASSUME
                                                                    UPF W_LOC2 EC <UPF_W_LOC1+2>
ED_W_COC2 EQ <ED_W_LOC1+2>
                                          446
                                                           ASSUME
                                          448 10$:
                                                                     SUM$VIRT_ADDR
SUM_EDSZE
#2,G^LIB$GET_VM
R0,70$
SUM$VIRT_ADDR,R11
R10,ED_L_FILE(R11)
UPF_B_FILENO(R10), -
ED_B_FILENO(R11)
PAR$Q_PFA+0(PR) ED_L
                                          449
       0000000'EF
                                015A
                                                           PUSHAB
                                                                                                        ; Stack arguments for LIB$GET_VM
                                0160
       00000004'EF
                           9F
                                                           PUSHAB
00000000 GF
                                0166
                                          451
                           FB
                                                                                                           Get edit block
Error if LBC
                                                           CALLS
                                          452
453
454
                           E9
                                016D
                                                           BLBC
      00000000 ÉF
                           DÓ
                                0170
                                                                                                        ; Set block pointer
; Fill in file block address
                                                           MOVL
                           ĎŎ
                                0177
                                                           MOVL
    19 AB
               OC AA
                           90
                                           455
                                017B
                                                           MOVB
                                                                                                        : and file umber
                                0180
                                                                      RABSW_RFA+0(R8),ED_W_RFA+0(R11); Record file address (3 words); RABSW_RFA+4(R8),ED_W_RFA+4(R11); ED_W_LINES(R11); UPF_W_LOC1(R10),ED_W_LOC1(R11); Move both locator numbers UPF_B_EDFLAGS(R10),ED_B_FLAGS(R11); and flags to edit node
    OE AB
12 AB
               10 A8
                                0180
                                                           MOVL
               14 A8
                           BO
                                0185
                                                           MOVW
               OC AB
                           B4
                                018A
                                          459
                                                           CLRW
    08 AB
               04 AA
                           DO
                                018D
                                          460
                                                           MOVL
    18 AB
               09 AA
                           90
                                0192
                                                           MOVB
                                          461
                                0177
                                          462
463
                                               30$:
                                                                      READ_UPD_LINEARO,40$
                 0090
                                0197
                                                           BSBW
                                                                                                           Read line from input file OK if LBS
               0E 50
                          E8
                                019A
                                          464
                                                           BLBS
0001827A 8F
                          D1
                                          465
                                                           CMPL
                                019D
                                                                      RO.#RMS$_EOF
                                                                                                           Is error end-of-file?
                                                                      80$
                           12
                                01A4
                                                           BNEQ
                                          466
                                                                                                           No if NEQ
                          DŌ
            54
                                01A6
                                                                      #CMD_M_ALL,R4
                                          467
                                                           MOVL
                                                                                                           Fake an end-of-edit command
                   13
                           11
                                01A9
                                          468
                                                           BRB
                                                                                                        ; Error will be reported on next pass
                                01AB
                                          469 40$:
                                01AB
                                          470
                                                           BSBW
                                                                      COMMAND_CHECK
                                                                                                           Check for command
                           Ë9
                                01AE
                                          471
                                                           BLBC
               E6 50
                                                                      RO,30$
                                                                                                           Syntax error if LBC
                                                                      #CMD_V_EDTRM,R4,50$
#CMD_V_CMND,R4,30$
ED_W_LINES(R11)
30$
                                                                                                           Branch if data terminating command
        09 54
DE 54
                   01
                           E0
                                01B1
                                                           BBS
                   00
                           ĒŎ
                                01B5
                                                           BBS
                                                                                                           Branch if normal command
               Or AB
                                01B9
                                                           INCW
                           B6
                                                                                                           Increment number of insert lines for
                   D9
                           11
                                DIBC
                                                           BRB
                                                                                                         : this edit
                                          476 50$:
                                 01BE
               08 AB
                                01BE
                                                           TSTL
                                                                      ED_W_LOC1(R11)
                                                                                                           If Loc-1 and Loc-2 = 0 and Lines <> 0
                                                                                             ; there is an insert in front of ; the file, otherwise throw this ; Edit node away
                                          478
479
                           12
                                0101
                                                           BNEQ
                                                                      605
                                           480
               OC AB
                                           481
                                                           TSTW
                                                                      ED_W_LINES(R11)
                           12
                                0106
                                                           BNEQ
                           ΕĪ
                   02
                                0108
                                                           BBC
                                                                      #CMD_V_EDEND,R4,60$
                                                                                                           Branch if not end of edits
                                                                      SUMSVIRT ADDR
SUM_EDSZE
#2,G^LIB$FREE_VM
R0,70$
       00000000 'EF
                           9F
                                0100
                                                           PUSHAB
                                                                                                           Stack arguments for LIB$FREE_VM
       00000004 'EF
                           9F
                                0102
                                           485
                                                           PUSHAB
                           FB
E9
                                          486
487
0000000°GF
                                0108
                                                           CALLS
                                                                                                           Return unused memory block
                   50
10
                                01DF
                                                           BLBC
                                                                                                         ; Error if LBC
                           11
                                                                      80$
                                 01E2
                                                           BRB
                                 01E4
                                          489
                                               60$:
```

SUMSEDIT VO4-000			SET_	UP_NOD	ES		N 1 16-SEP-1984 5-SEP-1984	02:10 03:30	0:14 VAX/VMS Macro VO4-00 P 8:52 [SUM.SRC]SUMEDIT.MAR;1	age	12 (7)
	0A 54	0F 02 FF6D	10 E0 31	01E4 01E6 01EA 01ED 01ED 01F4	490 491 492 493 70 \$:	BSB BBS BRW	INSERT_NODL #CMD_v_EDEND,R4,80\$ 10\$:	Insert block into edits list Branch if edit terminating command Go back for next edit command		
	0000000'EF	00	FB	01ED	494 495 80 \$: 496	CALLS	#0,SUM\$LIB_ERR	;	Report error		
			05	01F4	496	RSB					

SUM\$

INSERT_NODE

536

537 538

022B

022B

022F

05

04 B1

68

405:

INSQUE

RSB

(R11), aED_L_BWD(R1)

; Insert new node into list

```
SUMSEDIT
V04-000
```

```
16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
                                READ_UPD_LINE
                                                                                                                                                                                     (9)
                                                                     .SBTTL READ_UPD_LINE
                                                           Subroutine to read line sequentially from current update file
                                                            There are two entry points:
                                                                     READ_UPD_LINE
                                                                                             to access the file and read line
                                                                     READ_UPD_LINEA if update file is already accessed and ready for next line to be read
                                                           Inputs:
R8 = RAB address for reading file
                                                           Implicit Inputs: SUM_UBF_ADDR
                                                                                             address of local UBF, to aviod access conflicts.
                                                   558
                                                           Outputs:
                                                   559
                                                                     RO = success/error status
                                                   560
                                                                    R6 = Line size
R7 = Line buffer address
                                                   561
                                                  562
563
                                                                     .ENABL LSB
                                                   564
                                                   565
                                                        READ_UPD_LINE:
                                                                                 ACCESS_UPDATE RO,10$
                      030D
                                                  567
                                                                                                                                  : Access update file : Error if LBC
                                 Ĕ9
                     4F 50
                                                  568
                                                                     BLBC
                                                        READ_UPD_LINEA:
                                                                                RAB$L_UBF(R8)
RAB$L_ROP(R8)
#RAB$M_LOC, RAB$L_ROP(R8)
SUM_UBF_ADDR, RAB$L_UBF(R8)
RAB = R8, ERR = SUM$READ_ERR
(SP)+, RAB$L_ROP(R8)
(SP)+, RAB$L_UBF(R8)
RC,10$
RAB$W_RSZ(R8),R6
RAB$L_RBF(R8),R7
#SUM_M_SRCUPD,IS_B_FLAGS(R9)
#RAB$V_LOC, RAB$L_ROP(R8), 10$
#^M<RO_R1,R2,R3,R4,R5>
RAB$W_RSZ(R8),-
aSUM_UBF_ADDR,-
aRAB$L_UBF(R8)
#^M<RO_R1,R2,R3,R4,R5>
                     24 A8
04 A8
                                                                                                                                  ; Save the old UBF address.
                                 DD
                                                                    PUSHL
                                                                                                                                     Save the old ROP field.
04 A8
            00010000 BF
                                 CA
                                                                     BICLZ
                                                                                                                                    Set MOVE mode for $GET.
24 A8
            00000004 'EF
                                 D0
                                                                                                                                     Use local buffer.
                                                                     MOVL
                                                   575
                                                                     SGET
                                                                                                                                     Read line
                                                   576
577
              04 A8
                                                                                                                                     Restore old ROP and UBF.
                                                                     MOVL
              24
                 A8
                          8E
                                 DO
                                                                     MOVL
                                 £9
30
                     1 F
                         50
                                                                     BLBC
                                                                                                                                     If error, don't copy string.
             56
57
                     22
28
                                                                     MOVZUL
                                                                                                                                     Set line size
                                 D0
88
                         A8
                                                   580
                                                                     MOVL
                                                                                                                                     and buffer address
                         04
              2A A9
                                                   581
                                                                     BISB2
                                                                                                                                     Mark as update line
                                                                                                                                    Should we copy string to UBF?
Save registers across MOVC3
String length
Source buffer
         OE 04 A8
                                 EO
                                                                     BBS
           00000004 FF
24 B8
3F
                                 BB
28
                                                                     PUSHR
                                                   584
                                                                     MOVC3
                                                   585
                                                  586
587
                                                                                                                                     Destination buffer
                                                                     POPR
                                                                                                                                  : Restore registers
                                                  588 10$:
589 ;
                                 05
                                        0285
                                                                     RSB
                                        0286
                                                  590
```

.DSABL LSB

; until first good line

SUMS

V04-

648

```
592
593
                                                           .SBTTL SUMSLINE
                                 0286
                                           594
                                                   This procedure is called from the main program to get the next
                                 0286
                                           595
                                                   input line. This line may come from either the source file or an update file.
                                           596
                                           598
                                                   Inputs:
                                           599
                                           600
                                                           4(AP) = Address of control block
                                           601
                                           602
                                                   Ouputs:
                                          604
                                                           Next line
                                           605
                         OFFC
                                                            .ENTRY
                                                                     SUM$LINE,^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                 04 AC
                            DO
                                           608
                                                           MOVL
                                                                      4(AP),R1
                                                                                                        Get address of control block
          59
58
                 04
                                                                     SUM L ISDATA(R1),R9
IS E MAIN RAB(R9),R8
IS_L_EDIT_BLK(R9),R11
                     A1
                                           609
                                                           MOVL
                                                                                                        Set input stream data block address
                 20 A9
10 A9
                            DO
                                           610
                                                           MOVL
                                                                                                      ; Get main program RAB address
           ŠB
                            D0
                                           611
                                                           MOVL
                                                                                                      : Set current edit block address
                                           612
613
                                                SUM_DISPATCH:
                                                          CASEB IS_B_STATE(R9).#SUM_ST_SET.#SUM_ST_EOF; Branch to service routine
.SIGNED_WORD LINE_SET-10$
.SIGNED_WORD LINE_NUP-10$
.SIGNED_WORD LINE_UPD-10$
.SIGNED_WORD LINE_UPE-10$
.SIGNED_WORD LINE_UPE-10$
.SIGNED_WORD LINE_UPR-10$
.SIGNED_WORD LINE_UPR-10$
.SIGNED_WORD LINE_BLK-10$
.SIGNED_WORD LINE_BLK-10$
.SIGNED_WORD LINE_GET-10$
.SIGNED_WORD LINE_GET-10$
    08
          00
                 04 A9
                         00631
                                                105:
                                           614
                                           615
                         0090'
                                           616
                                           620
621
623
623
625
627
                         0191
                         02041
                                                SUM_RETURN:
          10 A9
                                                                     R11, IS_L_EDIT_BLK(R9)
4(AP), R1
                                                           MOVL
                                                                                                        Preserve edit block address
          51
                 04
                            DŎ
                                                                     AC
                                                           MOVL
                                                                                                        Get address of control block
                            DO
                     50
                                                           MOVL
                 2A A9
                            90
                                 02BA
      1C A1
                                                           MOVB
                                 02BF
                                           630
631
632
633
635
                                 DZBF
      20 1C A1
                     02
                            E1
                                                           BBC
                                  0204
                 2E A9
18 AA
      1A A1
                            B0
                                                           MOVW
      08 A1
                            7D
                                                           MOVQ
                                                                                                      ; Supply audit string descriptor
                                 02CE
                                                           MOVAL
      10 A1
                 03 AA
                            9Ā
                                                           MOVZBL
                            DO
      14 A1
                 04 AA
                                                           MOVL
                                  02DC
                            E8
                                                           BLBS
                     0Ž
                            Ĕ4
      18 1C AT
                                           641
                                                                      #SUM_V_SRCUPD,SUM_B_FLAGS(R1),10$; don't mark as update line
                                                           BBSC
                                                   Source file line
                                           644
                                                5s:
                                           645
                                           646
647
18 A1
          06 A9
                                                           SUBW3
                                                                      #1,IS_W_LINE_NO(R9),SUM_W_LINE_NO(R1) ; Number of line being returne
                 12 50
                                                                      RO, 105
                            E9
                                                           BLBC
                                                                                                        If error save deleted line information
```

SUMSEDIT V04-000	SUM\$LINE	E 2 16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 Page 16 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1 (10)
	OD 05 A9 01 E5 02ED 649 02F2 650 1A A1 30 A9 B0 02F2 651 03 1C A1 04 E2 02F7 652 02FC 653 30 A9 B4 02FC 654 02FF 655 10\$:	BBCC #PRC_V_DELINE, - ; Branch if no pending deleted info IS_B_PROCFLAGS(R9),10\$ MOVW IS_W_DELETES(R9),SUM_W_INSERT_NO(R1); Return number of lines delete BBSS #SDM_V_DELETE, - ; Set_deleted lines information flag SUM_B_FLAGS(R1),10\$ CLRW IS_W_DELETES(R9) ; Reset number of deleted lines RET

SUM\$

Page

51

FF71

31

0324

691

BRW

08 AB

```
16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
LINE_SET
                                      .SBTTL LINE_SET
```

SUM_DISPATCH

```
659
                                  Routine to service SET state
                            660
                            661
                                  Determines if the next line is to come from the main source file
                            662
                                  or from an update file. If there are no more updates to be processed the state is set to NUP; if there are updates but the next update is to
                            664
                                  be applied to a later source line the state is set to SRC; if the next
                            665
                                  line is to come from an update file the state is set to UPD.
                            666
                            667
                            668
                                  Inputs:
                           669
670
                                         R11 = Current edit block address
                            671
                                  Outputs:
                            674
                                         state changed
                            676 LINE_SET:
                                                   #SUM_ST_NUP, IS_B_STATE(R9) ; Assume no more updates
                            677
04 A9
                                          MOVB
                                                  ISTLEFICELIST (R97, R1
              DO
13
         69
                            678
                                          MOVL
                                                                                 Get address of first file block
         18
                   0307
                                         BEQL
                                                                                 If EQL there are no update files
                                                                                 form edit block list head address Any edits still in list?
     10
               DE
                   0309
                            680
                                                   UPF_Q_EDITS(R1),R1
                                          MOVAL
   5B
         51
               D1
                   030D
                            681
                                                   R1.R1T
                                          CMPL
                            682
683
               13
                   0310
                                                   10$
                                          BEQL
                                                                                 No if EQL so must be source line
               90
                   03.2
                                                   #SUM_ST_UPD, IS_B_STATE(R9); Assume next line is from update file
         03
                                          MOVB
                                                  IS W LINE NO(R9), -
ED W LOC1(R11)
     06 A9
               B1
                   0316
                            684
                                          CMPW
                                                                                Is line number of source file less
                            685
                    031B
                                                                                 than locator-1 of next edit?
                   031B
               18
                            686
                                          BGEQ
                                                                                 No if GEQ
04 A9
               90
                   031D
                            687
                                          MOVB
                                                   #SUM_ST_SRC, IS_B_STATE(R9); Change state to source
                   0321
                           688 10$:
      0187
               30
                   0321
                           689
                                         BSBW
                                                   ACCESS_SRC
                                                                               ; Access source file
                           690 20$:
```

; and dispatch again

G 2

SUM\$ VO4-

Page 18 (12)

BRW

SUM_RETURN

LINE_SRC

30 B1

19 90

31

06 A9

04 03

FF71

08 AB

04 A9

; and return with line

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```
.SBTTL LINE_SRC
                   The next source line is read from the main input file. The line number is incremented and compared with the locator-1 value of the next edit. If the line number remains lower the state remains at SRC.
                   If the line number is equal or greater the state is changed to UPD. The next call to SUM$LINE will then get an update line.
                   Inputs:
                            R11 = Current edit block address
                   Outputs:
          state
                                         READ_SRC_LINEA
IS_W_LINE_NO(R9), -
ED_W_LOC1(R11)
10$
                             BSBW
                                                                              ; Get next line from source file
                             CMPW
                                                                              : Is source line number still lower
                                                                              ; than next locator-1
                             BLSS
                                                                                Yes if LSS
                             MOVB
                                         #SUM_ST_UPD, IS_B_STATE(R9); Reset state to UPD
033B
033B
```

LINE_UPD

SUMS.

V04-

```
.SBTTL LINE UPD
                                 740
                                 741
                                         The next update operation is prepared by determining the range of
                                 742
                                         the edit, that is the number of edit operations which have clashed.
                                 744
                                         Inputs:
                                 745
                                 746
                                                 R9 = Input stream data pointer
                                 747
                                                  R11 = Current edit block address
                                 748
                                 749
                                         Outputs:
                                 750
751
                                                  IS_L_FIRST_EDIT(R9) = first edit block of update
IS_L_LAST_EDIT(R9) = Last edit block of update
                                 752
753
                                                  IS_W_HIGH_LOC2(R9) = Highest loc-2 value of update
                       033E
                                 754
                                 755
                                 756 LINE_UPD:
757 M
758 M
                                                            R11, IS L FIRST_EDIT(R9); Save address of first edit
ED_W_LOCZ(R11), R4; Set highest loc-2 value
R4, IS W_HIGH_LOC2(R9); and supply as routine output
#SUM_M_SUBCLSH, IS_B_FLAGS(R9); May be first edit in clash
#<PRC_M_ERRORS! - ; Assume no clash errors,
PRC_M_HIEDIT! - ; highest edit does not overide oth
PRC_M_NODATA>, - ; and all data lines inserted
IS_B_PROCFLAGS(R9)
#SOM_ST_UPR_IS_R_STATE(P9)
                 D0
30
80
8A
8A
14 A9
                       033E
                                                  MOVL
                       0342
0346
034A
034E
           AB
54
       0A
                                                  MOVZWL
20 A9
                                 759
                                                  MOVW
                                 760
                                                 BICB2
                                 761
                                                 BICB2
                                 762
763
                                                                                                highest edit does not overide others.
                       034F
05 A9
                       034F
                                 764
04
                                                            #SOM_ST_UPR.IS_B_STATE(R9)
IS_L_FICELIST(R9),R5;
   A9
           05
                                 765
                       0352
                                                  MOVB
                       0356
0359
    55
           69
                  DÓ
                                 766
                                                  MOVL
                                                                                                Set files list
                                                            UPF_Q_EDITS(RS), RS
      10
          A5
                  DE
                                 767
                                                 MOVAL
                                                                                              ; list head address
                       035D
035D
                                 768 10$:
                  DO
                                 759
770
                                                 MOVL
                                                            (R11),R2
                                                                                                Point to next edit block
                       0360
0363
0365
0368
                  D1
                                                                                                At end of list?
Yes if EQL
                                                 CMPL
                                                            R2,85
                  13
                                 771
                                                 BEQL
                                                            40$
    51
                                 772
                 D0
                                                            R4,R1
                                                 MOVL
                                                                                                Set highest locator value of edit
                                 773
                  12
           A<sub>0</sub>
                                                 BNEQ
                                                            20$
                                                                                                 If zero set from loc-2 of current edit
                 3C
12
51
      OA.
                       036A
                                 774
          AB
                                                 MOVZWL
                                                            ED_W_LOC2(R11),R1
                                                                                                Set highest locator value of edit
                       036E
0370
0374
                                 775
                                                 BNEQ
                                                                                                 If zero set from loc-1 of current edit
                  30
51
      08 AB
                                 776
777 20$:
                                                 MOVZWL
                                                                                                Set highest locator value of edit
                                                            ED_W_LOC1(R11),R1
                       0374
                                 778
779
SA 80
                  B1
                                                 CMPW
                                                            R1,ED_W_LOC1(R2)
                                                                                                Does this edit overlap with next?
                       0378
                  19
                                                 BLSS
                                                                                              : No if LSS
                       037A
                                 780
                       037A
037A
                                 781
782
783
                                      ; This edit block clashes with next
                       037A
                 B1
18
0A A2
                                                  CMPW
                                                            R4,ED_W_LOC2(R2)
25$
                                                                                              : Is its loc-2 higher than current loc-2
                       037E
                                 784
                                                 BGEQ
                                                                                                No if GEQ
                  3Č
                       0380
54
      OA.
          A2
                                 785
                                                 MOVZWL
                                                            ED_W_LOC2(R2),R4
                                                                                              ; Extend range of edit
                                 786 25$: 787
                       0384
                 B5
13
                       0384
                                                            ED_W_LOC2(R2)
       OA
          A2
                                                  TSTW
                                                                                               Is edit all inserts?
                       0387
                                 788
                                                 BEQL
                                                                                                Yes if EQL
05 A9
                  88
                       0389
                                 789
                                                 BISB
                                                            #PRC_R_HIEDIT, IS_B_PROCFLAGS(R9); Highest edit overides others
                                 790 30$:
                       038D
                                                                                                therefore replace later)
                                                            CHECK_ERR
R2,R1T
10$
           21
52
(9
                       038D
                                 791
                                                 BSBB
                  10
                                                                                                See if error should be reported
                                 792
793
                       038F
                                                 MOVL
                  DO
    5B
                                                                                              : Point to next edit block
                       0392
                                                 BRB
                  11
                       0394
                                 794 40$:
                       0394
                                 795
18 A9
           5B
                  D0
                                                 MOVL
                                                            R11, IS_L_LAST_EDIT(R9) ; Set address of last edit block
```

ED_W_LINES(R11)

; then do not report as error

#PRC_M_ERRORS,IS_B_PROCFLAGS(R9) ; Set error report bit

BNEQ

TSTW

BEQL

BISB

RSB

12

B5

13

88

05

OC AB

05 A9

04

04

0388

03BA

03BD

03BF

03BF

03c3

0303

825 10\$:

20\$:

826

827

828

LINE_UPE

31

03E9

856

BRW

16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1

SUM\$

V04-

```
.SBTTL LINE_UPE
                                        The update operation contains clashing edits which must be reported
                                        Inputs:
                                                R11 = Address of next clashing edit
                                        Outputs:
                                                R11 = Edit block pointer advanced
                                    LINE_UPE:
                                                          ED_L_FILE(R11),R10
READ_UPD_LINE
#SUM$_EDITSCLSH,R0
R11,IS_L_FIRST_EDIT(R9)
                  D0
30
D0
                                844
                                                MOVL
                                                                                           Get file block address of clashing edit
Read update file to get edit line
                                845
                                                BSBW
         FE65
00848800 8F
                       03CB
                                                MOVL
                                846
                                                                                            Set return status
           5B
                                                          R11,IS_L_FIRST_EDIT(R9); first report of this set of clashes 10$; Yes if EQL #SUM_M_SUBCLSH,IS_B_FLAGS(R9); Set 2nd or later flag
 14 A9
                  D1
                       0302
                                                CMPL
                  13
                       0306
                                848
                                                BEQL
 2A A9
                                849
           08
                  88
                       0308
                                                BISB
                       03DC
                                850 10$:
 18 A9
           5B
                  D1
                       03DC
                                851
                                                CMPL
                                                          R11, IS_L_LAST_EDIT(R9) ; At last edit?
                                852
853
                  12
                       03E0
                                                BNEQ
                                                                                            No if NEQ
                                                          #SUM_ST_UPR, IS_B_STATE(R9); Set state to Update Ready
 04 A9
           05
                  90
                       03E2
                                                MOVB
                                854 20$:
                       03E6
         6B
FEC3
     5B
                  DO
                       03E6
                                855
                                                MOVL
                                                          (R11)_{R11}
                                                                                         : Advance to next edit block
```

SUM_RETURN

SKIP_SRC_LINES

SUM_DISPATCH

0408

0408

31

FE8D

884 60\$:

BRW

885

; Skip over source lines to be deleted

; and dispatch

SUM\$ V04-

SUM\$EDIT V04-000

LINE_BLK

Page 24 (17)

SUM\$1

V04-(

```
040B
040B
                                                 .SBTTL LINE_BLK
                                  888
                         040B
                                         This routine is called to begin processing of the next edit block. The file from which edit lines will come is prepared for access. The
                         040B
040B
                                  891
                                         state is reset to GET.
                                  892
893
                         040B
                         040B
                         040B
                                       : Inputs:
                         040B
                         040B
                                  896
                                                 R11 = Current edit block address
                         040B
                         040B
                                         Outputs:
                                  899
                                                 None
                                  901
                                  902
903
904
                         040B
                                      LINE_BLK:
                    DO
30
E9
E5
                                                           ED_L_FILE(R11),R10
ACCESS_UPDATE
R0,20$
                         040B
         14 AB
                                                 MOVL
                                                                                            Get file block address of file
           012E
                         040F
                                  905
                                                                                            Prepare for reading file
Error if LBC
                                                 BSBW
             50
00
                         0412
                                  906
907
          16
                                                 BLBC
00 05 A9
                                                 BBCC
                                                           #PRC_V_EXPED.IS_B_PROCFLAGS(R9).5$; Clear expected edit flag
                                  908 55:
                         041A
                    B5
12
E2
                                  909
                         041A
          08 AB
                                                 TSTW
                                                           ED_W_LOC1(R11)
                                                                                           Is this insert in front of file? No if NEQ
                         041D
                                  910
             05
                                                 BNEQ
                                  911
                         Ŏ41F
00 05 A9
             00
                                                 BBSS
                                                           #PRC_V_EXPED, IS_B_PROCFLAGS(R9), 10$; Set expected edit flag
                                  912 10$:
                         0424
0424
0428
042B
042B
                    90
31
   04 A9
             07
                                                 MOVB
                                                           #SUM_ST_GET, IS_B_STATE(R9); Reset state to GET
                                 914
915 20$:
           FE6D
                                                           SUM_DISPATCH
                                                 BRW
                                                                                         ; and dispatch again
           FE81
                    31
                                  916
                                                 BRW
                                                           SUM_RETURN
                                                                                          ; Return to caller with error
```

Page

VAX/VMS Macro V04-00

; Set SLP syntax error status

[SUM.SRC]SUMEDIT.MAR:1

LINE_GET

```
.SBTTL LINE GET
                                              Routine to get next line from update file
                                              Inputs:
                                                       R11 = Current edit block address
                                              Outputs:
                                                       R11 = Next edit block address
                              042F
                              042E
                                           LINE_GET:
                              042E
0432
              14 AB
                        DO
                                                       MOVL
                                                                 ED_L_FILE(R11),R10
                                                                                                 ; Set file block pointer
                                            105:
                        30
E8
D1
12
D0
11
                              0432
                                       935
                                                       BSBW
                                                                 READ_UPD_LINEARO,20$
                                                                                                   Get next line from update file
                              0435
                                                       BLBS
                                                                                                   OK if LBS
0001827A 8F
                              0438
                                       937
                                                       CMPL
                                                                 RO, #RMS$_EOF
                                                                                                   Is error end-of-file?
                              043F
                                                                 35$
                                       938
                                                       BNEQ
                                                                                                   No if NEQ
      00848810
                              0441
                                       939
                                                       MOVL
                                                                 #SUM$_PRMEOF_RO
                                                                                                   Set premature end-of-file status
                              0448
                                       940
                                                       BRB
                                       941
942
943
                                            20$:
                              C44A
                        30
E9
E0
E0
              020C
44 50
                              044A
                                                       BSBW
                                                                 COMMAND_CHECK
                                                                                                   Check for syntax and type
                              044D
                                                       BLBC
                                                                 RO,80$
                                                                                                   Syntax error if LBC
                  00
   07 54
D9 05 A9
                                                                 #CMD_V_CMND,R4,30$
#PRC_V_NODATA, -
IS_B_PROCFLAGS(R9),10$
90$
                              0450
                                                       BBS
                                                                                                   Branch if command line
                              0454
                                       945
                                                       BBS
                                                                                                   Ignore data line if higher precedence
                              0459
0459
                                       946
                                                                                                   edit is overiding others
                                       947
948
                        11
                  40
                                                       BRB
                                                                                                   Return to caller with line
                              045B
045B
                                           30$:
   D3 54
OE 05 A9
C9 18 AB
                                                                 #CMD_V_EDTRM,R4,10$ ; Branch if not edit terminating command
#PRC_V_EXPED.IS_B_PROCFLAGS(R9),40$ ; If expecting edit get next lin
#ED_V_SEQERR,ED_B_FLAGS(R11),10$ ; Was edit out of sequence?
#SUM$_EDOUTSEQ.R0 ; Yes: report error now
                                       949
950
                                                       BBC
                  ŎÒ
                        ĒŽ
E1
                              045F
                                                       BBSS
                  ŎĬ
                              0464
                                                       BBC
      00848818
                  8F
                        D0
                             0469
0470
                                                       MOVL
                                      953
                                           35$:
                        11
                  20
                              0470
                                       954
                                                      BRB
                                                                 100$
                              01/2
                                       955
                                            ; found end of this set of lines
                                       957
958
959
960
961
963
965
9667
968
968
                                            405:
       18 A9
                              0472
                  5B
                                                       CMPL
                        D1
                                                                 R11, IS_L_LAST_EDIT(R9)
                                                                                                ; Last edit block in range?
                        13
E1
                              0476
                                                                                                   Yes if EQL
                                                       BEQL
                                                                 60$
                              0478
   04 05 A9
                  03
                                                                 #PRC_V_HIEDIT, -
IS_B_PROCFLAGS(R9),50$
                                                      BBC
                                                                                                   Branch if concatenating inserts
                              047D
                        88
       05 A9
                  10
                              047D
                                                      BISB
                                                                 #PRC_M_NODATA,IS_B_PROCFLAGS(R9) ; Ignore data from other edits
                              0481
                                           50$:
                        90
11
       04 A9
                              0481
                                                       MOVB
                                                                 #SUM_ST_BLK,IS_B_STATE(R9); Reset state to BLK
                              0485
0487
                  04
                                                       BRB
                                            60$:
                              0487
       04 A9
                        90
                                                       MOVB
                                                                 #SUM_ST_SET, IS_B_STATE(R9); Reset state to SET
                              048B
                                            705:
                 6B
50
                              048B
                                       970
                                                                 (R11),R11
R0,100$
                                                       MOVL
           SB.
                                                                                                   Point to next edit block
                        Ĕ9
31
                                       971
972
              00
                              048E
                                                      BLBC
                                                                                                  If error return to caller first
                              0491
               FE04
                                                      BRW
                                                                 SUM_DISPATCH
                                                                                                 ; or dispatch again
                              0494
                                       973
                                            80$:
                                       974
      00848808 8F
                        DO
                              0494
```

#SUM\$_SLPSYNERR,RO

MOVL

B 3

16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 ESUM.SRCJSUMEDIT.MAR;1

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SUM1 V04-

975 90\$: 976 977 100\$: 978 049B 86 049B 049E 31 049E 2E A9

LINE_GET

FEOE

BRW

IS_W_INSERT_NO(R9) INCW

SUM_RETURN

; Increment number of new/replace lines

; Return to caller

998

SUM'

SUMSEDIT V04-000

	ACCESS_SRO		16-SEP-1984 02:10 5-SEP-1984 03:38	:14 VAX/VMS Macro V04-00 :52 [SUM.SRC]SUMEDIT.MAR;1	Page 28 (20)
	04AB 04AB 04AB	1000 .SBTTL A	CCESS_SRC		
	04AB 04AB 04AB	1001: 1002: Routine to acce 1003: the main file F 1004:	ss main source file. The AB if it is not already c	RAB is connected to onnected.	
	O L A D	1005 : Inputs:			
	04AB 04AB 04AB 04AB 04AB 04AB	1007 : R8 = Mai 1008 :	n program RAB address		
	04AB 04AB	1009 ; 1010 : Outputs: 1011 ;			
	04AB 04AB 04AB	1012 : None 1013 :			
	04AB 04AB	1014 : 1015 ACCESS_SRC:			
	2 A8 B5 04AB 1F 13 04AE			Is it connected to a FAB? No if EQL	
51 3 51 3	2 A9 DE 04B0 C A8 D1 04B4	1018 MOVAL I 1019 CMPL R	S_T_FAB(R9),R1 AB\$C_FAB(R8),R1	Set input stream FAB address Is it connected to SUM FAB?	
	04BA	1020 BNEQ 2 1021 SDISCONNE	U\$ CT RAB = R8, -	No if NEQ, it's connected to main Disconnect RAB from SUM FAB	FAB
0	04BA 04C9 950 E9 04CC 04CF	1022 1023 CLRL I 1024 BLBC R 1025 10\$:	ERR = SUM\$CLOSE_ERR S_L_CONN_FILE(R9) ; 0,20\$;	Clear file connected flag Error if LBC	
3C A8 1	C A9 DO 04CF	1026 MOVL I	S L MAIN FAB(R9), - ;	Put main program FAB into RAB	
	04D4 04D4	1028 SCONNECT	ÀBSE_FAB(R8) RAB = R8, - ; RR = SUMSOPEN_ERR	Connect main program FAB to RAB	
0	2 50 E9 04E3 0C 10 04E6	1030 BLBC R 1031 BSB R	0,20\$;	Error if LBC Restore source file RFA	
	04E8 05 04E8	1032 20\$: 1033 RSB			

SUM Sym

04EE

B0

05

14 A8

28 A9

04EE 04F3 04F3

1051

1052

1054

MOVW

RSB

E 3

SUMS

: ymt

```
16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
                 RESTORE_SRC_RFA
                       04F4
                                             .SBTTL RESTORE_SRC_RFA
                             1057;
                       04F4
                       04F4
                             1058
                       04F4
                             1059
                                     Routine to restore source file record file address and reset record pointers. If RFA is zero a rewind is performed,
                       04F4
                             1060
                                     if non-zero the record is located by a find.
                       04F4
                             1061
                             1062
                       04F4
                       04F4
                       04F4
                             1064
                                   : Inputs:
                       04F4
                             1065
                       0474
                             1066
                                            R8 = RAB address
                       04F4
                             1067
                       04F4
                             1068
                       04F4
                             1069 : Outputs:
                       04F4
                             1070
                       04F4
                             1071
                                            RO = Success/error status
                             1072
                       04F4
                             1073
                       04F4
                             1074 RESTORE_SRC_RFA:
                       04F4
10 A8
         24 A9
                       04F4
                             1075
                                            MOVE
                                                     IS W MAIN RFA+0(R9), - RABSU_RFA+0(R8)
                  DO
                                                                                 ; Move RFA back to RAB
                       04F9
                             1076
                                                                                 : (3 words)
         28 A9
14 A8
                  B0
                       04F9
                                            MOVW
                                                      IS_W_MAIN_RFA+4(R9), -
                             1077
                                                      RABSW_RFA74(R8)
                       04FE
                             1078
                  12
D5
12
                             1079
                       04FE
                                            BNEQ
                                                                                   If NEQ then do find
            16
                                                      10$
         10 A8
                       0500
                             1080
                                                      RABSW_RFA+0(R8)
                                            TSTL
                                                                                   Test other part of RFA
            11
                       0503
                                                                                   If NEQ then do find
                             1081
                                            BNEQ
                                                      10$
                       0505
                             1082
                                            SREWIND RAB = R8. -
                                                                                 : Rewind to start of file
                                                     ERR = SUMSREAD_ERR
20$
                       0505
                             1083
            29
                  11
                      0514
                             1084
                                            BRB
                       0516
                             1085 10$:
                  90
   1E A8
            02
                      0516
                                            MOVB
                             1086
                                                      #RAB$C_RFA,RAB$B_RAC(R8); Put into RFA access mode
                             1087
                                                     RAB = R8. -
                       051A
                                            $FIND
                                                                                 : Reset record pointers
                             1088
                                                      ERR = SUMSREAD ERR
                       051A
   1E A8
                                            MOVB
                      0529
                             1089
                                                      #RAB$C_SEQ,RAB$B_RAC(R8); Reset to sequential access mode
                  ĖŠ
         OF 50
                      052D
                             1090
                                            BLBC
                                                      RO,20$
                                                                                   Error if LBC
                       0530
                             1091
                                                      RAB = R8 -
                                            SGET
                                                                                  Advance past this record which has
                       0530
                             1092
                                                      ERR = SUMSREAD_ERR
                                                                                 : read before.
                             1093 205:
                       053F
                      053F
                                            RSB
                             1094
```

SUMS Symt

TPA TPA TPA TPA TPA TPA

TPA TPA TPA TPA UPF UPF UPF UPF

UPF

UPF UPF UPF UPF

SABS SUM1 SUM1 LIE LIE LIE SUM1

Phas

Init Comm Pass Symt Pass Symt Psec Cros Asse

The

```
16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 
5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
                                                                                                                                31
(23)
                 ACCESS_UPDATE
                                             .SBTTL ACCESS UPDATE
                       0540
0540
                             1097
                             1098
                                     Routine to access update file
                       0540
                             1099
                      0540
0540
0540
                             1100
                             1101
                                     Inputs:
                             1102
                                            R8 = Main program RAB address
                       0540
                             1104
                                            R10 = file block address of required update file
                             1105
                                            R11 = Edit block address of next edit
                       0540
                             1106
                             1107
                       0540
                       0540
                             1108
                                     Ouputs:
                       0540
                             1109
                       0540
                             1110
                                            R9 = FAB address
                      0540
                             1111
                             1112 :
1113 ACCESS_UPDATE:
                       0540
                      0540
                       0540
                             1114
                                            PUSHR
                                                      #^M<R2,R3,R4>
   52
53
54
                                                     IS_L_OPEN_FILE(R9),R2
IS_L_CONN_FILE(R9),R3
IS_T_FAB(R9),R4
         08 A9
                  9Ē
                       0542
                             1115
                                            MOVAB
                                                                                  ; Set pointer to file open
         00
           A9
                  9E
                      0546
                             1116
                                            MOVAB
                                                                                   and file connected markers
         32
           A9
                  DE
                      054A
                             1117
                                            MOVAL
                                                                                   Set pointer to SUM's FAB
         8A S0
                  B5
                                                      RABSW_ISI(R8)
                      054E
                             1118
                                            TSTW
                                                                                   Is RAB connected to a FAB?
                  13
            5B
                      0551
                             1119
                                            BEQL
                                                      30$
                                                                                   No if EQL
   54
        30
                  D1
                      0553
            A8
                             1120
                                            CMPL
                                                      RAB$L_FAB(R8),R4
                                                                                  ; Is it connected to SUM's FAB?
                             1121
                  12
                      0557
                                            BNEQ
                                                      10$
                                                                                   No if NEQ
      63
            5A
                      0559
                             1122
                  D1
                                                      R10, (R3)
                                            CMPL
                                                                                   Is it connected to required file?
                      055C
                             1123
            69
                  13
                                            BEQL
                                                      40$
                                                                                  ; Yes if EQL
            03
                      055E
                  11
                                                      20$
                             1124
                                            BRB
                       0560
                             1125 10$:
                      0560
          FF86
                  30
                             1126
1127 20$:
                                            BSBW
                                                      SAVE_SRC_RFA
                                                                                  ; Save source file RFA
                       0563
                      0563
                             1128
                                            $DISCONNECT RAB = R8, -
                                                                                  ; Disconnect RAB from FAB
                       0563
                             1129
                                                      ERR = SUM$CLOSE ERR
                      0572
0575
        73 50
                             1130
                                            BLBC
                                                      RO,50$
                                                                                   Error if LBC
                             1131
                  D4
                                            CLRL
                                                      (R3)
                                                                                   Mark that no file is connected
            5A
32
      62
                  D1
                      0577
                             1132
                                            CMPL
                                                      R10,(R2)
                                                                                   Is required file already open?
                  13
                      057A
                             1133
                                            BEQL
                                                      305
                                                                                 ; Yes if EQL ; Is any file open on this FAB?
            62
                      057C
                             1134
                                                      (R2)
                  05
                                            TSTL
            14
                  13
                                                     25$
                      057E
                             1135
                                            BEQL
                                                                                   No if EQL
                       0580
                             1136
                                            $CLOSE
                                                     FAB = R4, -
                                                                                  ; Close currently open update file
                                                      ERR = SUMSCLOSE_ERR
                       0580
                             1137
                                                     RO,50$ (R2)
         56 50
                      058F
                             1138
                                            BLBC
                                                                                 : Error if LBC
                  D4
                      0592
                             1139
                                            CLRL
            62
                                                                                 ; Mark that no file is open
                       0594
                             1140 258:
28 A4
         38 AA
                  DE
                      0594
                             1141
                                            MOVAL
                                                      UPF_T_NAM(R10), -
                                                                                  : Put NAM block into FAB
                                                     FABSL NAM(R4)
FAB = R4, -
                             1142
                       0599
                       0599
                                            SOPEN
                                                                                 ; Open required update file
                       0599
                             1144
                                                      ERR = SUMSOPEN_ERR
                                                     RO,50$
R10,(R2)
         3D 50
                      05A8
                             1145
                                            BLBC
                                                                                 : Error if LBC
                             1140
1147 30$:
      62
            5A
                  DO.
                      05AB
                                            MOVL
                                                                                 ; Mark which file is open
                       O5AE
                      05AE
05B2
05B2
   3C A8
            54
                  DO
                             1148
                                            MOVL
                                                      R4, RAB$L_FAB(R8)
                                                                                 ; Put FAB address in RAB
                                            $CONNECT RAB = R8, -
                             1149
                                                                                 ; Connect RAB to FAB
                                                      ERR = SUMSOPEN_ERR
                             1150
```

RO,50\$

R10,(R3)

; Error if LBC

: Mark which file is connected

BLBC

MOVL

1151

1152

0501

0504

DO

24 50

SUM!

VAX-

1211

Thei

65 1

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TOTA

141!

The

MACF

ACCESS_UPDATE

10	8 A	0E	AB	DO	05C7 05C7	1153 40 \$: 1154	MOVL	ED_W_RFA+O(R11), - ; Reset RFA (3 words) RAB\$Q_RFA+O(R8)
14	8 A	12	AB	В0	05CC 05CC 05D1	1155 1156 1157	MOVW	RAB\$W_RFA+O(R8) ED_W_RFA+4(R11), - RAB\$W_RFA+4(R8)
	1E	A8	02	90	05D1 05D5	1158 1159	MOVB \$find	#RAB\$C_RFA,RAB\$B_RAC(R8); Put into RFA access mode RAB = R8, - ; Position file
	1E	A8	00	90	0505 05E4 05E8	1160 1161 1162 50\$:	MOVB	<pre>ERR = SUM\$READ ERR #RAB\$C_SEQ,RAB\$B_RAC(R8); Reset to sequential access mode</pre>
			10	BA 05	05E8 05EA	1163 1164	POPR RSB	#^M <r2,r3,r4></r2,r3,r4>

H 3

* * 5

SUM\$

Tabl

0628

1212

.DSABL LSB

```
16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 ESUM.SRCJSUMEDIT.MAR;1
                                                                                                                                                                                             Page 34 (25)
                                    SKIP_SRC_LINES
                                                      1214
1215
1216
1217
1218
1219
1220
                                             0628
0628
0628
0628
0628
0628
                                                                             .SBTTL SKIP_SRC_LINES
                                                                  Routine to skip over source file lines
                                                               ; Inputs:
                                                                             R4 = Last line number to skip
R8 = RAB address
                                             0628
                                                                  Outputs:
                                                      1224 :
1225 : IS_W_LIN
1226 :
1227 :
1228 SKIP_SRC_LINES:
1229 :
1230 : CMPW
1231 : BLSS
1232 : BSBW
1233 : BLBC
1235 : SFIND
1236 :
1237 : BLBC
1238 : INCW
1239 : ACBW
                                                                            IS_W_LINE_NO(R9) = Last line number
                                             0628
                                             0628
                          01
54
27
FE77
                                      D0
B1
19
30
E9
                50
06 A9
                                             0628
                                                                                                                                    : Assume success
                                             065B
                                                                                          R4, IS_W_LINE_NO(R9)
                                                                                                                                                : Need to skip any?
                                            062F
0631
0637
0637
0637
0646
0645
0653
                                                                                          20$
                                                                                                                                      No if LSS
                                                                                          ACCESS_SRC
RO,20$
                                                                                                                                  ; Access source file ; Error if LBC
                         21 50
                                                                                          RAB = R8, -
                                                                                                                                   : Skip one line
                                                                                          ERR = SUMSREAD_ERR
                                                                                          RO,20$
                                      E9
B6
3D
                         OF 50
                                                                                                                                   : Error if LBC
                         30 A9
                                                                                          IS_W_DELETES(R9)
R4,#1,IS_W_LINE_NO(R9),10$
                                                                                                                                                ; Increment deleted lines count
                                                      1238
1239
1240
1241
1242
1243 20$:
FFE4 06 A9
                     01
                              54
                                                                             ACBW
                                                                                                                                                : Increment line number and branch b
                                                                                                                                     if more lines to skip
Set deleted lines information
                                                                                          #PRC_V_DELINE, - ; Set deleted !
IS_B_PROCFLAGS(R9),20$ ; pending flag
           00 05 A9
                              01
                                                                             BBSS
```

RSB

0658 0658 0658 COMMAND_CHECK

16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR:1

```
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```

SUM\$

V04-

```
1246
1247
1248
                                                        .SBTTL COMMAND_CHECK
                               0659
                               0659
                                                Subroutine to check if line is a command
                               0659
                               0659
                                               Irouts:
                               0659
                               0659
                                                        R6 = Size of line
                                                        R7 = Address of line
                               0659
                                                        R8 = RAB address
                                                        R9 = Input stream control block
                                                        R10= File block address
                               0659
                               0659
                               0659
                                                Outputs:
                               0659
                                                        R4[CMND] = 0:Data 1:Command
                                                        R4[EDTRM] = 0:Normal command 1:Data terminator command
                               0659
                                      1260
                                       1261
                               0659
                                                        R4[EDEND] = 0:Data terminator 1:End of edit
                                       1262
                               0659
                                                        R6 = Size of line
R7 = Address of line
                               0659
                               0659
                                       1264
                                             COMMAND_CHECK:
                               0659
                                      1265
                                                                  UPF_W_LOC2 EQ <UPF_W_LOC1+2>
                               0659
                                      1266
                                                        ASSUME
                                                                   R8, SUM_CUR_RAB
0000000'EF
                              0659
                                      1267
                  58
                         DO
                                                        MOVL
                                                                                                     Make the currently active RAB available to the TPARSE action routines.
                                       1268
                               0660
                                                                  TPARSE_BLOCK,R1
IS_B_FEAGS(R9), -
TPA_B_ISFLAGS(R1)
#SUM_V_AUDITNEW, -
TPA_B_ISFLAGS(R1),5$
                                      1269
      00000008'EF
                              0660
                                                        MOVAL
                                                                                                     Set pointer to Tparse parameter block
              2A A9
                         90
    28 A1
                              0667
                                                        MOVB
                                                                                                   ; Get current input stream flags byte
                               066C
                                       1271
    00 28 A1
                  01
                         E5
                               0660
                                       1272
                                                        BBCC
                                                                                                   ; but clear new audit trail flag
                                      1273
                               0671
                               0671
                                      1274 5$:
                                                                  TPA_B_EDFLAGS(R1)
UPF_W_DOT(R10), -
TPA_W_DOT(R1)
TPA_W_LOC(R1)
TPA_W_LOC1(R1)
TPA_Q_AUDDS(R1)
TPA_Q_CMNT(R1)
R6,TPA_Q_LINEDS(R1)
R6,TPASL_STRING(NT(R1)
MER_KEY
                                      1275
1276
1277
1278
              29 A1
                              0671
                                                        CLRB
                                                                                                     Clear all edit flags
    2A A1
              OA AA
                         B0
                              0674
                                                        MOVW
                                                                                                   : Get current dot value
                               0679
              2C A1
24 A1
30 A1
                                                                                                     Clear locator value and line type
Clear loc-1 and loc-2
Clear audit descriptor
                              0679
                                      1279
                         D4
                              067C
                                                        CLRL
                         7C
7C
7D
7D
                                                        CLRQ
                              067F
                                      1280
              38 A1
56
56
                              0682
                                      1281
                                                        CLRQ
                                                                                                     Comment descriptor
       40 A1
                              0685
                                      1282
                                                        MOVQ
                                                                                                     Save line size and address
        08 A1
                              0689
                                      1283
                                                        MOVQ
                                                                                                     Set TPARSE input descriptor
      00000000 'ÉF
                         DF
                              068D
                                      1284
                                                        PUSHAL
                                                                  MER KEY
      00000000 'EF
                                                                  MER_STATE
                         DF
                              0693
                                      1285
                                                        PUSHAL
                         DD
                              0699
                                      1286
                                                        PUSHL
0000000 GF
                         FB
                              069B
                                      1287
                                                                  #3,G^LIB$TPARSE
R0,20$
                                                        CALLS
                  50
                         E9
                              06A2
                                      1288
                                                        BLBC
                                                                                                     Error if LBC
      0000008'EF
                         DE
B5
13
                                                                  TPÁRSE BLOCK,R1
TPA_W_COC2(R1)
                              06A5
                                      1289
                                                        MOVAL
                                                                                                     Set pointer to Tparse paramter block
                                                                                                    Were two locators in command?
No if EQL, so don't compare them
(R1); Is loc-1 <= loc-2?
Yes if LEQ
                                      1290
              26 A1
                              O6AC
                                                        TSTW
                              06AF
                                      1291
                                                        BEQL
              24
                         B1
15
                                      1292
1293
    26 A1
                              06B1
                                                        CMPW
                                                                   TPA_W_LOC1(R1), TPA_W_LOC2
                  A1
                              0686
                                                        BLEA
                  50
3A
                         D4
                              06B8
                                      1294
                                                        CLRL
                                                                   R0
                                                                                                     Set error status
                         11
                                                                                                     and return
                              06BA
                                      1295
                                                        BRB
                                                                   20$
                               06BC
                                      1296 8$:
                                      1297
1298
       50
22
                         7D
                                                                   TPA_Q_LINEDS(R1),R6
              40 A1
                                                        MOVO
                              06BC
                                                                                                     Reset line size and address,
           A8
                  56
                         B0
90
                                                                   R6.RABSW_RSZ(R8)
                              0600
                                                        MOVW
                                                                                                     Reset RAB block record size
                                                                  TPA B ISFLAGS(R1),
IS B FLAGS(R9)
TPA B EDFLAGS(R1),
                                      1299
1300
              28 A1
    2A A9
                              0604
                                                        MOVB
                                                                                                   ; input stream flags byte,
                               0609
              29 A1
                         90
    09 AA
                              0609
                                      1301
                                                        MOVB
                                                                                                  ; edit flags byte,
                               06CE
                                      1302
                                                                   UPF_B_EDFLAGS(R10)
```

SI V(JM\$EDIT 04-000		36 26)
		A A	
		20 AA 38 A1 7D 06D8 1306 MOVQ TPATQTCMNT(R1), - ; Comment descriptor UPFTQTCMNT(R10)	
		0 2A A9 01 E1 06DD 1308 BBC #SUM V AUDITNEW, - ; If new audit trail	
		06E2 1309 IS B_F[AGS(R9),10\$ 8 AA 30 A1 D0 06E2 1310 MOVL TPR Q AUDDS(R1), - ; Copy size of string	
	28 AA	0 2A A9	
		3f BA 06F0 1315 POPR #^M <ro,r1,r2,r3,r4,r5></ro,r1,r2,r3,r4,r5>	
		06F2 1316 10\$: 54	
		05 06F6 1319 RSB	

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COMMAND_CHECK		5-SEP-1984 03:3	38:52 [SUM.SRC]SUMEDIT.MAR;1
06F7 1321 : 06F7 1322 : 06F7 1323 : 06F7 1324 :	Tparse action ro	putines	
0000 06F7 1325 A 0000 06F7 1326 00 04 AC 00 E2 06F9 1327 06FE 1328 1 04 06FE 1329 06FF 1330 ;	CT_BLANKS_SIG: .WORD 0 .BBSS #1 O\$: .RET	TPA\$V_BLANKS,TPA\$L_OPTIC	ONS(AP),10\$
06FF 1331 : 06FF 1332 A 0000 06FF 1333 00 04 AC 00 E5 0701 1334 0706 1335 1 04 0706 1336 0707 1337 :	CT_BLANKS_NSIG: .WORD 0 BBCC #1 0\$: RET	TPA\$V_BLANKS,TPA\$L_OPTIC	ONS (AP),10\$
04 0706 1336 0707 1337 0707 1338 0707 1339 A 0707 1340 28 AC 01 88 0709 1341 070D 1342 04 070D 1343 070E 1344 070E 1345 070E 1346 A 070E 1346 A	CT_PERCENT: .WORD 0 BISB #S RET	SUM_M_AUDIT, - ; PA_B_TSFLAGS(AP)	Switch on audit trail
0714 1349	CT_BACKSLASH: .WORD 0 BICB #S TE	SUM_M_AUDIT, - ; PA_B_TSFLAGS(AP)	Switch off audit trail
51 01 00 0717 1355 56 40 AC 9E 071A 1356 66 B7 071E 1357 3F BB 0720 1358 04 B6 04 B641 66 28 0722 1359 51 00000000'EF D0 0729 1360 10 E0 0730 1361 06 04 A1 0732 1362 24 B1 04 B6 66 28 0735 1363 3F BA 073B 1364 1	MOVL #1 MOVAB TP DECW (R PUSHR #^ MOVC3 (R MOVL SU BBS #R MOVC3 (R	M <r6> 1,R1 PA_Q_LINEDS(AP),R6 R6) PM<r0,r1,r2,r3,r4,r5> R6),a4(R6)[R1],a4(R6) JM_CUR_RAB, R1 RABSV_EOC,- AB\$L_ROP(R1), 10\$ R6),a4(R6),aRAB\$L_UBF(R1) PM<r0,r1,r2,r3,r4,r5>;</r0,r1,r2,r3,r4,r5></r0,r1,r2,r3,r4,r5></r6>	Set index Point to buffer descriptor Reduce line length by one Save registers across MOVC3s. Move up line. Get the current RAB, check to see if we should propagate the shifted string); to the UBF. Restore registers.
0000 073E 1369 2E AC 20 AC BO 0740 1370 0745 1371		PA\$L_PARAM(AP), - ; PA_W_LINTYP(AP)	Set return type
0746 1374 :	CT_LOC1: .WORD 0 MOVW #C	CMD_M_CMND,TPA_W_LINTYP(AP) ; Assume normal command

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COMMAND_CHECK									N 3 16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 Page 38 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1 (27)
24 A1 21		5c c 5c	AC 07 03 AC	B0 13 B0 B4	0740 0751 0753 0757 075A 075B 075B	1378 1379 1380 1381	10 \$:	MOVW BEQL MOVW CLRW RET	TPA_W_LOC(AP),TPA_W_LOC1(AP) 10\$; If EQL is a normal command #CMD_M_CMND!CMD_M_EDTRM,TPA_W_LINTYP(AP); Set as data terminator co TPA_W_COC(AP)
26 A	С	20	AC	0000 B0 04	0758 0758 0758 0750 0762 0763	1385 1386 1387 1388 1389 1390	ACT_LOC2	: .WORD MOVW RET	O TPA_W_LOC(AP),TPA_W_LOC2(AP)
2C A(С	2A	AC	0000 B0 04	0763 0763 0765 076A	1393 1394 1395 1396	ACT_DOT:	.WORD MOVW RET	O (QA))OOL_W_AQT, (QA)TCO_W_AQT
2C A(C C	1C 2C	AC AC	0000 B0 B0 04	076B 076B 076B 076B 076D 0772 0777 0778	1397 1398 1399 1400 1401 1402 1403 1404		UM: .WORD MOVW MOVW RET	O TPA\$L_NUMBER(AP),TPA_W_LOC(AP) TPA_W_LOC(AP),TPA_W_DOT(AP)
2C A(C C	10 20	AC AC	0000 A0 B0 04	0778 0778 0778 0777 0776 0784 0785 0785	1405 1406 1407 1408 1409 1410 1411		: .WORD ADDW2 MOVW RET	O TPA\$L_NUMBER(AP),TPA_W_LOC(AP) TPA_W_LOC(AP),TPA_W_DOT(AP)
34 AC 28 00 04	8 A			0000 DU 88 E2 04	0785 0785 0787 0780 0790 0795 0795 0796	1412 / 1413 1414 1415 1416 1417 1418 1419	10 \$:	T: .WORD MOVL BISB BBSS RET	O TPA\$L_STRINGPTR(AP),TPA_Q_AUDDS+4(AP) #SUM_M_AUDITNEW, - ; Set new audit trail flag TPA_B_TSFLAGS(AP) #TPA\$V_BLANKS,TPA\$L_OPTIONS(AP),10\$; Make blanks significant
10	0	30 30	AC 03 AC	0000 D1 18 D6	0796 0796 0798 0798 0790 0790 0741 0741	1421 1423 1424 1425 1426 1427 1428 1429	10\$:	H: .WORD CMPL BGEQ INCL RET	O TPA_Q_AUDDS(AP),#16 ; Is audit trail at maximum size? 10\$; Yes if GEQ TPA_Q_AUDDS(AP) ; Increment audit trail size
00 04	4 A	C	00	0000 E 5	07A2 07A2 07A2 07A4 07A9	1430 1431 1432 1433 1434		ND: .WORD BBCC	O #TPA\$V_BLANKS,TPA\$L_OPTIONS(AP),10\$; Switch off blank processing

SUMSEDIT V04-000 29 AC

01

88

04

1448

; Set clash messages suppressed flag

SUM' VO4

RET

SUM\$CLOSE

1489

.END

```
(28)
```

SUM

V04

```
07B9
                                       .SBTTL SUMSCLOSE
                         1451 :
                  07B9
                        1452
                  07B9
                  07B9
                                This procedure is called from the main program prior to closing
                  07B9
                                the input file. It ensures that the main program source file
                  07B9
                         1455
                                is connected to the RAB.
                  07B9
                  07B9
                         1457
                  07B9
                         1458 : Inputs:
                         1459
                  07B9
                  0789
                         1460
                                       4(AP) = Address of SUM control block
                   0789
                         1461
                  07B9
                         1462
                                Outputs:
                  07B9
                  07B9
                         1464
                                       None
                  0789
                         1465
                  07B9
                         1466
            0300
                  07B9
                         1467
                                       .ENTRY SUMSCLOSE, M<R8, R9>
                  07BB
                         1468 :
51
59
                  07BB
     04 AC
              DO
                         1469
                                       MOVL
                                                4(AP),R1
                                                                          : Get control block address
     04 A1
                  07BF
              DO
                         1470
                                       MOVL
                                                SUM_L_ISDATA(R1),R9
                                                                          ; and set data block pointer
              13
                  0703
                                                205
                         1471
                                       BEQL
                                                IŠ L_FILELIST(R9)
              D5
13
         69
                  0705
                                       TSTL
                                                                          : Is there an update list?
         28
                  0767
                         1473
                                       BEQL
                                                                            No if EQL, file already accessed
                  0709
51
     1C A9
              DO
                         1474
                                       MOVL
                                                IS_L_MAIN FAB(R9),R1
                                                                            Get main program FAB address
              B5
13
                         1475
                                                FABSU_IFI(R1)
     02 A1
                  07CD
                                                                            Is source file open?
                                       TSTW
        07
                  0700
                         1476
                                                                          : No if EQL
                                       BEQL
                                                10$
              00
30
58
     20 A9
                  0702
                         1477
                                       MOVL
                                                IS_L_MAIN_RAB(R9),R8
                                                                          : Set RAB pointer
      FCD2
                  0706
                                                ACCESS_SRC
                         1478
                                       BSBW
                                                                          : Access source file
                         1479 10$:
                  0709
              D5
13
                                                IS_L_OPEN_FILE(R9)
20$
     08 A9
                  07D9
                         1480
                                       TSTL
                                                                          ; Is an update file open?
        13
                  07DC
                         1481
                                       BEQL
                                                                          : No if EQL
                                               FAB = IS T_FAB(R9),
ERR = SUMSCLOSE_ERR
                  07DE
                         1482
                                       $CLOSE
                  07DE
                         1483
                                                                          : Close update file
                                                IS_L_OPEN_FILE(R9)
     08 A9
                  07EE
                         1484
              D4
                                       CLRL
                                                                          ; and clear marker
                        1485 20$:
                  07F1
              04
                  07F1
                         1486
                                       RET
                  07F2
07F2
07F2
                        1487
                         1488
```

```
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```

```
ED W LINES
ED W LOC1
ED W LOC2
ED W LOC3
ED W 
            SUMSEDIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16-SEP-1984 02:10:14 VAX/VMS Macro V04-00
5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
             Symbol table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       = 00000003
             SSSCNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0000000C
00000008
            SSSFLG
                                                                                                                                                                                                                                                         = FFFFFFF
             SSSKEY
                                                                                                                                                                                                                                                           = FFFFFFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07
07
07
07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04
```

D 4

SUM! Syml

PSE(SAB! SUM! SUM! SUM!

Phai Ini Come Pasi Syml Pasi

SUMSEDIT Symbol table		16-SEP-19 5-SEP-19	84 02:10:14 VAX/VMS Macro V04-00 84 03:38:52 [SUM.SRC]SUMEDIT.MAR;1	Page 42 (28)
PRC_V_DELINE PPC_V_ERRORS PCC_V_EXPED PRC_V_HIEDIT PRC_V_NODATA PROCESS_FILE RAB\$B_RAC RAB\$C_RFA RAB\$C_SEQ RAB\$L_FAB	= 00000001 = 00000002 = 00000003 = 00000004 0000000EF R 07 = 00000001E = 00000002 = 000000000 = 00000003C	SUM_Q_AUDDS SUM_G_FILESP SUM_RETURN SUM_ST_BLK SUM_ST_EOF SUM_ST_GET SUM_ST_NUP SUM_ST_SET SUM_ST_SET	0000008 00000010 000002AF R 07 = 00000006 = 00000007 = 00000001 = 00000000 = 00000002 = 00000003	
RABSC_SEQ RABSL_FAB RABSL_RBF RABSL_UBF RABSM_LOC RABSV_LOC RABSW_ISI RABSW_RFA RABSW_RSZ RABSW_USZ READ_SRC_LINE	= 00000028 = 00000004 = 00010000 = 00000010 = 00000002 = 00000022 = 00000020 000005EB R 07	SUM_ST_UPD SUM_ST_UPE SUM_ST_UPR SUM_TPARSE SUM_UBF_ADDR SUM_V_AUDIT SUM_V_AUDITNEW SUM_V_DELETE SUM_V_SRCUPD SUM_V_SUBCLSH SUM_W_INSERT_NO	= 00000004 = 00000005 00000002C R 02 000000000 = 000000001 = 00000001 = 00000002 = 00000003 0000001A	
READ_SRC_LINEA READ_UPD_LINE READ_UPD_LINEA RESTORE_SRC_RFA RMS\$_EOF SAVE_SRC_RFA SEMICOLON SET_UP_NODES SIZ SKIP_SRC_LINES	000005F4 R 07 00000230 R 07 00000236 R 07 000004F4 R 07 = 0001827A 000004E9 R 07 = 0000003B 0000015A R 07 = 00000001 00000628 R 07	SUM_W_LINE_NO SYS\$CEOSE SYS\$CONNECT SYS\$DISCONNECT SYS\$FIND SYS\$GET SYS\$OPEN SYS\$REWIND TERM TPA\$K_COUNTO	00000018 ******* GX 07 0000004C R 04 = 00000008	
SUMSCLOSE SUMSCLOSE_ERR SUMSINIT_CMND SUMSINIT_EDIT SUMSLIB_ERR SUMSLINE SUMSOPEN_ERR SUMSREAD_ERR SUMSVIRT_ADDR	000007B9 RG 07 ******* X 07 00000006 R 07 00000004 RG 07 00000000 RG 07 ******* X 07 00000286 RG 07 ******* X 07 ******* X 07	TPASK LENGTHO TPASL NUMBER TPASL OPTIONS TPASL STRINGENT TPASL STRINGETR TPASL STRINGETR TPASC BLANKS TPAS ALPHA TPAS BLANK	= 00000024 = 0000001C = 00000020 = 00000008 = 0000000C = 0000000C = 000001EE = 000001F2	
SUMS_EDITSCLSH SUMS_EDOUTSEQ SUMS_PRMEOF SUMS_SLPSYNERR SUM_B_FLAGS SUM_COR_RAB SUM_DISPATCH SUM_EDSZE SUM_ISSZE	= 00848800 = 00848818 = 00848810 = 00848808 0000001C 00000000 R 02 00000298 R 07 00000004 R 03 00000001D	TPAS DECIMAL TPAS DIGIT TPAS EOS TPAS EXIT TPAS FAIL TPAS FILESPEC TPAS HEX TPAS IDENT TPAS KEYWORD TPAS LAMBDA TPAS MAXKEY	= 000001F3 = 000001EF = 000001F7 = FFFFFFFF = FFFFFFFE = 000001EA = 000001EC = 000001F6	
SUM_K_BLN SUM_L_ISDATA SUM_L_STS SUM_M_AUDIT SUM_M_AUDITNEW SUM_M_DELETE SUM_M_SRCUPD SUM_M_SUBCLSH	00000004 000000000 = 00000002 = 00000010 = 00000004 = 00000008	TPAS_MAXKEY TPAS_OCTAL TPAS_STRING TPAS_SUBXPR TPAS_SYMBOL TPAS_UIC TPARSE_BLOCK	= 000000DC = 000001F4 = 000001F0 = 000001F8 = 000001F1 = 000001EB 00000008 R 02	

```
SUM! VAX-
Symt Psec Cro! Asset The 3326 Their 320 14 F
```

```
SUMSEDIT
                                                                                                          16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1
 Symbol table
TPA B EDFLAGS
TPA B ISFLAGS
TPA Q AUDDS
TPA Q CMNT
TPA Q LINEDS
TPA W DOT
TPA W LOC1
TPA W LOC1
TPA W LOC2
UPF B EDFLAGS
UPF B FIFLAGS
UPF B FIFLAGS
UPF C AUDDS
UPF Q AUDDS
UPF Q CMNT
UPF Q EDITS
UPF T AUDST
UPF T AUDST
UPF W LOC2
UPF W LOC2
                                              = 00000029
                                                00000028
00000030
                                              =
                                              =
                                                00000038
                                              =
                                                00000040
                                              =
                                              =
                                                0000002A
                                                QQQQQSE
                                              =
                                                00000020
                                                00000024
                                                00000026
                                                 00000009
                                                 00000008
                                                0000000
                                                 00000098
                                                0000000
                                                 00000018
                                                 00000020
                                                 00000010
                                                 00000028
                                                 00000038
                                              = 00000000
                                                 0000000A
                                                 00000004
                                                 0000006
                                                                         Psect synopsis!
 PSECT name
                                                                            PSECT No.
                                               Allocation
                                                                                            Attributes
     ABS
                                               00000000
                                                                  0.)
152.)
                                                                            00
                                                                                    0.)
                                                                                            NOPIC
                                                                                                                                                                 NOWRT NOVEC BYTE
                                                                                                                CON
                                                                                                                        ABS
                                                                                                                                 LCL NOSHR NOEXE NORD
                                               00000098
 SABSS
                                                                            01
                                                                                    1.)
                                                                                            NOPIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        ABS
                                                                                                                                 LCL NOSHR
                                                                                                                                                  EXE
                                                                                                                                                           RD
                                                                                                                                                                    WRT NOVEC BYTE
 SUMSRU_DATA
SUMSRO_DATA
_LIBSSTATES
                                                                  80.)
8.)
231.)
                                               00000050
00000008
000000E7
                                                                                    Ž.)
                                                                            02
03
                                                                                            NOPIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        REL
                                                                                                                                 LCL NOSHR NOEXE
                                                                                                                                                                    WRT NOVEC LONG
                                                                                                                                                           RD
                                                                                                                                                                 NOWRT NOVEC LONG
                                                                                            NOPIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        REL
                                                                                                                                 LCL NOSHR NOEXE
                                                                                                                                                           RD
                                                                                    4.)
5.)
                                                                            04
                                                                                                                                                                 NOWRT NOVEC BYTE
                                                                                              PIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        REL
                                                                                                                                 LCL
                                                                                                                                          SHR
                                                                                                                                                  EXE
                                                                                                                                                           RD
                                               0000000
  LIBSKEYOS
                                                                                                                                                                 NOWRT NOVEC WORD NOWRT NOVEC WORD
                                                                    0.)
                                                                                              PIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        REL
                                                                                                                                 LCL
                                                                                                                                          SHR
                                                                                                                                                  EXE
                                                                                                                                                           RD
  LIBSKEY1S
                                                                            06
07
                                                                                    6.)
7.)
                                               00000000
                                                                    0.)
                                                                                               PIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        REL
                                                                                                                                 LCL
                                                                                                                                          SHR
                                                                                                                                                  EXE
                                                                                                                                                           RD
 SUMSCODE
                                                                2034.)
                                               000007F2
                                                                                            NOPIC
                                                                                                       USR
                                                                                                                CON
                                                                                                                        REL
                                                                                                                                 LCL NOSHR
                                                                                                                                                  EXE
                                                                                                                                                           RD
                                                                                                                                                                 NOWRT NOVEC LONG
                                                                    Performance indicators
 Phase
                                     Page faults
                                                           CPU Time
                                                                                Elapsed Time
 Initialization
                                                 38
                                                           00:00:00.08
                                                                                00:00:00.60
 Command processing
                                               147
                                                          00:00:00.51
                                                                                00:00:01.72
                                                          00:00:23.82
00:00:01.18
00:00:05.73
                                               476
                                                                                00:00:49.76
 Pass 1
                                                                                00:00:01.99
 Symbol table sort
                                                  0
 Pass 2
                                               254
                                                                                00:00:11.81
```

00:00:00.39

00:00:00.06

00:00:00.00

00:01:06.56

F 4

The working set limit was 1950 pages.

Symbol table output

Psect synopsis output

Assembler run totals

Cross-reference output

30 3

950

00:00:00.23

00:00:00.04

00:00:00.00

00:00:31.60

G 4

SUMSEDIT VAX-11 Macro Run Statistics

16-SEP-1984 02:10:14 VAX/VMS Macro V04-00 5-SEP-1984 03:38:52 [SUM.SRC]SUMEDIT.MAR;1

Page 44 (28)

121870 bytes (239 pages) of virtual memory were used to buffer the intermediate code. There were 50 pages of symbol table space allocated to hold 921 non-local and 83 local symbols. 1489 source lines were read in Pass 1, producing 43 object records in Pass 2. 65 pages of virtual memory were used to define 52 macros.

Macro library statistics !

Macro library name

Macros defined

_\$255\$DUA28:[SUM.OBJ]SUM.MLB;1
_\$255\$DUA28:[SYSLIBJSTARLET.MLB;2
TOTALS (all libraries)

29 36

1413 GETS were required to define 36 macros.

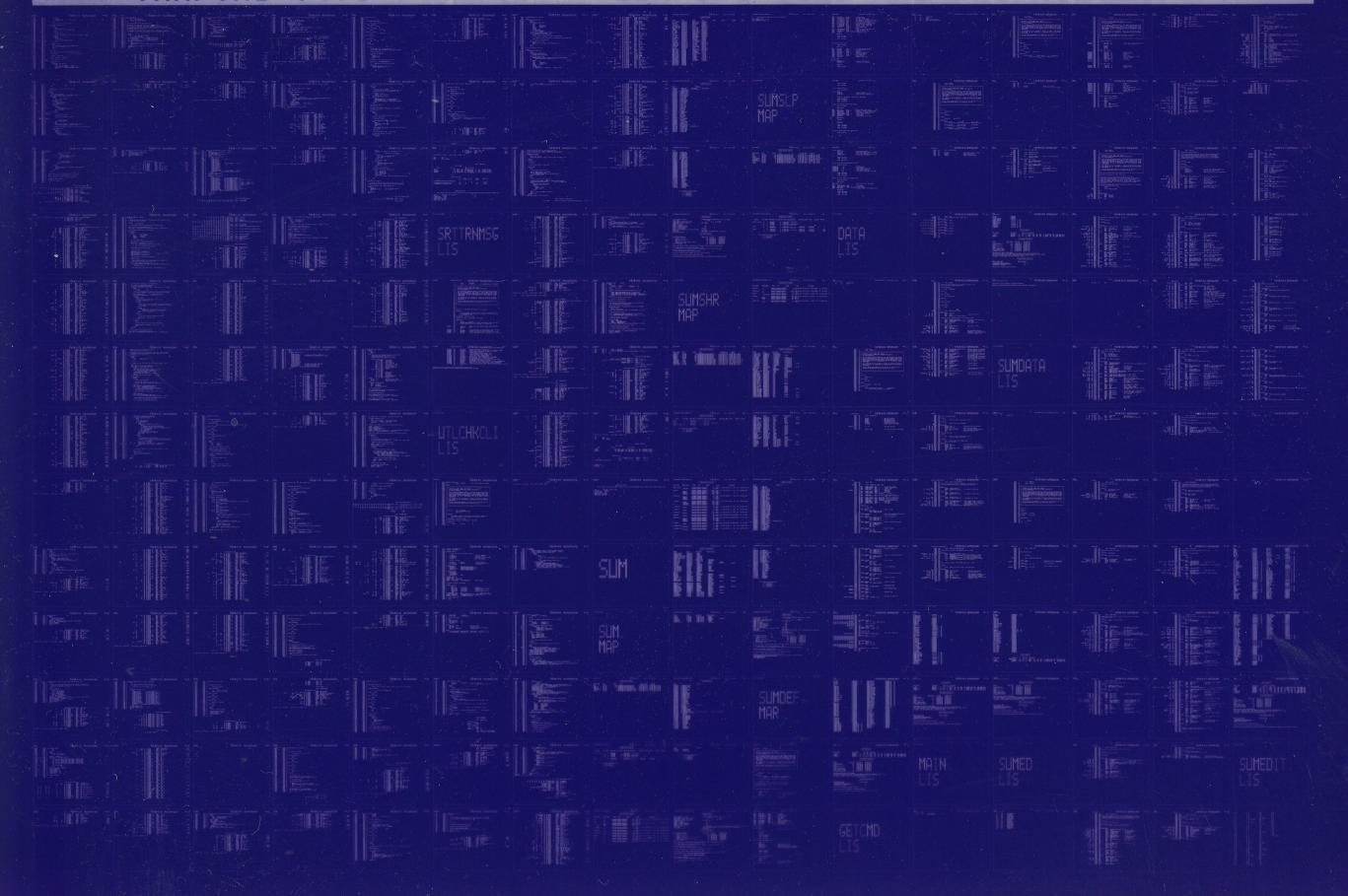
There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SUMEDIT/OBJ=OBJ\$:SUMEDIT MSRC\$:SUMEDIT/UPDATE=(ENH\$:SUMEDIT)+LIB\$:SUM/LIB

**F

0368 AH-BT13A-SE

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0369 AH-BT13A-SE

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